	Application No.	Applicant(s)
	10/771,396	HOJO ET AL.
Notice of Allowability	Examiner	Art Unit
	Rin A Lee	1713
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to January 4, 2006. 2. The allowed claim(s) is/are 1-5 and 7-12. 3. Acknowledgment is made of a claim for foreign priority unally all by Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" onted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	(OR REMAINS) CLOSED in this application other appropriate communication GHTS. This application is subject to and MPEP 1308. Idea 35 U.S.C. § 119(a)-(d) or (f). In been received. In been received in Application Nocuments have been received in this communication to file a reply ENT of this application. In the description of the attached EXAMINER are reason(s) why the oath or declarate the submitted. In this property is application to the submitted. In this property is application to file a reply it is application.	plication. If not included will be mailed in due course. THIS of withdrawal from issue at the initiative of withdrawal from its analysis of withdrawal
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	te

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Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 1-5 and 7-12 are allowed over the closest references cited below.

The present invention is drawn to a tire comprising a tread made from a rubber composition comprising: (1) a rubber component comprising a styrene-butadiene copolymer rubber having vinyl bond content of not less than 30 % and a bound styrene content of more than 30 mass % but not more than 60 mass %, and (2) at least one compound selected compounds represented by formula (I), (II), (III), or (IV) and (3) an organic (di)thiosulfate represented by formula (V); see claims for structural details.

Araki (JP 2002-069236) discloses a rubber composition comprising 100 pw of a rubber component such as polybutadiene rubber or styrene-butadiene rubber, 0.1-1.0 pw of a thiuram compound or a dithiocabamate compound, and 0.5-2.0 pw of sodium 1,6-hexamethylene dithiosulfate dehydrate which is useful for the manufacture of a retreaded (pneumatic) tire. The patent does not teach use of the particular SB rubber of the instant claims.

Fujiki (JP 10-195237) teaches use of sodium 1,6-hexamethylene dithiosulfate dehydrate as the vulcanization agent for styrene-butadiene rubber. According to the inventor, the heat resistant aging characteristic of the rubber is maximized when the styrene-butadiene rubber has a vinyl content of 35-85 % and when the styrene content is 30 % or less. The patent does not teach use of SB rubber having a styrene content of 30-60 wt %.

Yamagishi et al. (JP 2002-362107) discloses use of sodium 1,6-hexamethylene dithiosulfate in conjunction with tetramethyl thiuram monosulfide in polybutadiene compositions. The prior art does not teach or suggest the subject matter of the instant claims.

KR 2002-49429 discloses use of 1-3 phr of sodium 1,6-hexamethylene dithiosulfate and 0.1-0.5 phr of a thiuram-based vulcanization accelerator for curing natural rubber. The prior art does not teach or suggest the subject matter of the instant claims.

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Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The

examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be

reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

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January 12, 2006

DAVID W. WU

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